MAY 2 2 2007

CERTIFICATE OF TRANSMISSION

Date of Transmission:

May 22, 2007

Type of Document(s):

- Fee Transmittal Sheet (PTO/SB/17) (1 pg)

- Supplemental Information Disclosure Statement (3 pages)
- Supp. Information Disclosure Form (PTO/SB/08A) (1 pg)

- Copies of 4 References (54 pages)

Serial No.:

10/809,072

Inventors:

BULLIED et al.

Title:

SINGLE CRYSTAL INVESTMENT CAST COMPONENTS

AND METHODS OF MAKING SAME

File Reference:

EH-11132

I hereby certify that the documents identified above are being facsimile transmitted to the United States Postal Service at 571-273-8300 on the date indicated above, addressed to: Mail Stop Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Tracev R. Loughim

MAY 2 2 2007

PTO/SB/17 (12-94)
Approved for use through 07/31/2008, OMB 0551-0032
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Under the Panerwork Reduction A	rt of 1995 r	no nemons am moulted to	respond to a collection of			OMB control number	
Effective on 12/08/2004.			Complete if Known				
Fees pursuant to the Consolidated Appropriations Act. 2005 (H.R. 4618).			Application Numbe		10/809,072		
FEE TRANSMITTAL			Filing Date		March 25, 2004		
For FY 2005			First Named Invent	or Steven J.	Bullied et.al		
		Can 27 CER 1 27	Examiner Name	Kuang Y.	Lin		
Applicant claims small enti	ny status.	See 37 GPK 1.27	Art Unit	1725			
TOTAL AMOUNT OF PAYMEN	rr (\$)	180	Attorney Docket No	PA-085.1	1132-US (EH-	11132)	
METHOD OF PAYMENT (c	heck all t	hat apply)			·····		
Check Credit Care	и Пм	oney Order N	one Other (ples	se identify):			
Deposit Account Depos	ait Account I	Number: 21-0279		int Name: Pratt &			
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Charge any addit under 37 CFR 1. WARNING: Information on this for Information on the formation and authorization on I	16 and 1.1 m may bed) or underpayments of 7 come public. Credit card		y overpayment be included on th		eredit card	
FEE CALCULATION							
1. BASIC FILING, SEARCH	FILING F	ees se	arch fees e	EXAMINATION			
Application Type F	<u>89 (\$)</u>	nall Entity Fee (\$) Fee	Small Entity (5) Fee (\$)		Entity (.(\$)	ees Paid (\$)	
Utility	300	150 500	0 250	200 10	0		
Design	200	100 100	0 50	130	5		
Plant	200	100 300	0 150	160 8	:0		
Reissue	300	150 500	0 250	600 30	•0 —		
Provisional	200	100	0 0	0	0 _		
2. EXCESS CLAIM FEES					-	Small Entity See (\$) Fee (\$)	
<u>Fee Description</u> Each claim over 20 or, for R	eiggreg	each claim over 20 s	and more than in the	original nater	_	<u>see (\$) Fee (\$)</u> 50 25	
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3. APPLICATION SIZE FEE							
If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).							
Total Shoots Extra Sheets Number of each additional 50 or fraction thereof Fee (\$) Fee Paid (\$)							
100 = / 50 = (round up to a whole number) x =							
4. OTHER FEE(S) Fees Paid (\$)							
Non-English Specification, \$130 fee (no small entity discount)							
Other: Supplemental IDS fee per 37 C.F.R. § 1.47(p) 180.00							
SUBMITTED BY A A A A							
Signature	wkc	Lrull	Registration No. 5	1,969	Telephone 860	-565-6127	
Name (Print/Type) Tracey R Loui	(L)n	0	The state of the state of		Date May 2	2, 2007	

This collection of Information is required by 37 CFR 1.138. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 30 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief information Officer, U.S. Patant and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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MAY 2 2 2007

EH-11132

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of:

BUILLIED et al.

Serial No.:

10/809,072

Title:

SINGLE CRYSTAL INVESTMENT CAST

COMPONENTS AND METHODS OF MAKING

SAME

Filing Date:

March 25, 2004

Examiner:

Kuang Y. Lin

Art Unit:

1725

Mail Stop Amendment Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Dear Sir:

Pursuant to Applicant's duty of disclosure under 37 C.F.R. §§1.56, 1.97 and 1.98, the documents listed on the attached Form PTO/SB/08A are being brought to the attention of the Examiner in charge of the above-referenced Application. In accordance with 37 C.F.R. §1.97(g), no representation is being made that a search has been conducted, or that this statement encompasses all the possible relevant information. In accordance with 37 C.F.R. §1.97(h), no inference should be made that the information and references cited herein are prior art, or that they are material to patentability, merely because they are included in this statement.

The Examiner is respectfully requested to initial the space adjacent to the listing of each document on Form PTO/SB/08A, and return a copy of the initialed Form PTO/SB/08A with the next communication to Applicant, to confirm that these documents have been considered by the Examiner and made of record in this Application.

The below-referenced information is presented so that the Patent and Trademark Office may, in the first instance, determine any materiality thereof to the claimed invention. See 37 C.F.R. §§1.104(a) and 1.104(b) concerning the PTO duty to consider

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and use any such information. It is respectfully requested that the information be expressly considered during the prosecution of this Application, and that the references be made of record therein and appear among the "References Cited" on any patent that issues therefrom.

This paper is being submitted in accordance with:

	37 C.	F.R. § 1.97(b):				
		With the application;				
		Within 3 months of the filing date of a national application other				
		than a continued prosecution application under 37 C.F.R. §				
		1.53(d);				
		Within 3 months of the date of entry of the national stage as set				
		forth in 37 C.F.R. § 1.491 in an international application;				
		Before the mailing of a First Office Action on the merits; or				
		Before the mailing of a First Office Action after the filing of a				
		request for continued examination under 37 C.F.R. § 1.114.				
	37 C	37 C.F.R. § 1.97(c) - after the period specified in 37 C.F.R. § 1.97(b) but				
	befor	before the mailing date of any of a Final Office Action under 37 C.F.R. §				
	1.113	s, a Notice of Allowance under 37 C.F.R. § 1.311, or an action that				
	other	wise closes prosecution in this application, whichever is earlier; and				
	inclu	des:				
		The required statement made below; or				
		The \$180 fee specified in 37 C.F.R. § 1.17(p) for submission of				
		this IDS;				
Ø	37 C	.F.R. § 1.97(d) - after the period specified in 37 C.F.R. § 1.97(c) but				
	on or	on or before payment of the Issue Fee; and includes:				
	$ \overline{\mathcal{L}} $	The required statement made below; and				
	$ \overline{\mathbf{A}} $	The \$180 fee specified in 37 C.F.R. § 1.17(p) for submission of				
		this IDS;				

EH-11132

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- M 37 C.F.R. § 1.97(e) – required statement:
 - \square Each item of information contained in this IDS was first cited in a communication from a foreign patent office in a counterpart foreign application not more than three (3) months prior to the filing of this IDS; or
 - No item of information contained in this IDS was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing this Statement after making reasonable inquiry, no item of information contained in this IDS was known to any individual designated in 37 C.F.R. § 1.56(c) more than three (3) months prior to the filing of this IDS.
- \square A copy of the European Search Report in which said documents are cited is enclosed.

If the fee of \$180 is incorrect, please charge any additional fees due, or credit any overpayment, to Deposit Account No. 21-0279, Order No. EH-11132. If the Examiner has any questions or wishes to discuss this Application, the Examiner is kindly encouraged to telephone the undersigned.

Respectfully submitted,

Tracey R. Loughlin USPTO Reg. #51,969 Attorney for Applicant

PRATT & WHITNEY Legal/Intellectual Property 400 Main Street MS 132-13 East Hartford, CT 06108 Telephone: 860-565-6127

Facsimile: 860-755-1867

E-mail: tracey.loughlin@pw.utc.com

Attorney Docket Number

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Ī		Complete if Known		
	Substitute for form 1449B/PTO SUPP	Application Number	10/809,072	
	INFORMATION DISCLOSURE	Filing Date	March 25, 2004	
	STATEMENT BY APPLICANT	First Named Inventor	BULLIED et al.	
	(use as many sheets as necessary)	Group Art Unit	1725	
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Examiner Name	Kuang Y. Lin	

	Cite No.1	Document Number	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages	
	110.1	Number- Kind Cedn + (if known)			or Relevant Figures Appear	
	1	US-5,062,469	11-05-1991	Monte et al.		
	2	US-4,180,119	12-25-1979	Burd et al.		
	3	US-4,289,570	09-15-1981	Terkelsen		
	4	US-6,497,272	12-24-2002	Maslen		

FOREIGN PATENT DOCUMENTS						
Examiner Cite		Foreign Patent Document	Publication Date	Name of Patentee or	Pages, Columns, Lines, Where Relevant Passages	7
Initialis*	No.1	Country Code2 -Number4 - Kind Code e (If known)	MW-DD-Y	Applicant of Cited Document	or Relevant Figures Appear	
	5	EP 0 087 379 A1	08-31-1983	United Technologies Corp.		
	6	GB 2 037 200 A	07-09-1980	United Technologies Corp.		
-,-	7	DE 42 09 227 C1	05-06-1993	Access		
						<u> </u>

Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(a), volume-issue number(s), publisher, city and/or country where published.	Ta
8	European Scarch Report dated April 19, 2007.	
	No.1	No.1 norm (book, magazine, journal, serias, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.

Examiner	Date	
Signature	Considered	

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^{*}EXAMINER: Initial if reference considered, whether or not clation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered, include copy of this form with next communication to applicant.

1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.

This collection of Information is required by 37 CFR 1.98. The Information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confiderability is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the Individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. 8ox 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.